



VISTA COLLEGE ONLINE CAMPUS

YOUR PATH TO A BETTER LIFE STARTS WITH ONLINE CAREER TRAINING AT HOME

ASSOCIATE OF APPLIED SCIENCE DEGREE IN INFORMATION TECHNOLOGY ONLINE

The online Information Technology Associate Degree is designed to prepare students for entry-level employment in the IT field by preparing students with the skills needed to set-up, maintain, troubleshoot, and repair computers and small computer networks. Graduates will leave the program with the hands-on experience and the customer-service skills expected by today's employers. They will be eligible to sit for the A+ and the Net+ certification exams. Program objectives include: (1) analyzing a problem and identifying and defining the computing requirements appropriate for its solution, (2) functioning successfully in a professional environment, (3) communicating effectively with a range of audiences, and (4) effectively integrating IT-based solutions into the user environment. This program prepares graduates for positions such as help-desk analyst, customer support representative, technical support specialist, network installer, and field service technician. Upon completion of the program, an Associate of Applied Science degree is awarded.

COURSE DETAILS

COURSE NO.	COURSE TITLE	THEORY HRS.	LAB HRS.	QUARTER CREDIT HRS.
EECT 2450-O	Technical Customer Service	45	0	4.5
ITCC 1451-O	Introduction to Networking*	25	40	4.5
ITCC 1452-O	Network Security Fundamentals*	15	60	4.5
ITCC 2452-O	Network Security*	15	60	4.5
ITMT 2451-O	Windows Server Security*	45	0	4.5
ITNW 1451-O	Network Analysis and Design*	15	60	4.5
ITNW 1452-O	Server Administration*	15	60	4.5
ITNW 2451-O	Client Network Implementation*	25	40	4.5
ITSC 1450-O	Introduction to Computers	25	45	4.5
ITSC 1451-O	Computer Hardware Essentials*	15	60	4.5
ITSC 1452-O	Computer Software Essentials*	15	60	4.5
ITSC 1453-O	Computer Ethics	45	0	4.5
ITSE 1451-O	Windows Fundamentals*	15	60	4.5
POFT 1450-O	Professional Strategies	45	0	4.5
POFT 4451-O	Career Strategies	45	0	4.5
GENERAL EDUCATION COURSES				
COSC 1451-O	Computer Science	45	0	4.5
ENGL 1451-O	English Composition I	45	0	4.5
MATH 2451-O	Contemporary Mathematics	45	0	4.5
PSYC 2451-O	General Psychology	45	0	4.5
SPCH 2451-O	Speech Communication	45	0	4.5
Total		630	545	90.0

TOTAL CLOCK HOURS: 1175

ESTIMATED COMPLETION TIME: 100 WEEKS

* Indicates prerequisite exists. Students must complete the prerequisite course prior to entry into this course or have the instructor's permission to enter the course.



COURSE DESCRIPTIONS

EECT 2450-O TECHNICAL CUSTOMER SERVICE

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on the general principles of customer service within a technical environment. Emphasis is on internal/external customer relationships, time-management, best practices, and verbal and non-verbal communications skills.

ITCC 1451-O INTRODUCTION TO NETWORKING

CONTACT HOURS: THEORY - 25 LAB - 40 (65 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: ITSC 1450-O

This course focuses on the CompTIA Network+ and portions of the Cisco Certified Network Administrator (CCNA) certification exams. Emphasis is placed on an introduction to networking, using Internet tools and hardware commonly found in home and small business environments, and the physical aspects of installing network system components and cabling. Upon the completion of ITCC 1451-O and ITNW 1451-O, students will be eligible to sit for the CompTIA Network+ certification exam.

ITCC 1452-O NETWORK SECURITY FUNDAMENTALS

CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: ITSC 1451-O, ITSC 1452-O, ITSE 1451-O

This course focuses on security components, common vulnerabilities, defenses, virtualization, and topics of increasing importance in the industry as a whole. Emphasis will be placed on data, host security, and wireless security components. The student will be required to plan, administer, and evaluate workstation and network security.

ITCC 2452-O NETWORK SECURITY

CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: ITSC 1450-O (for Information Technology only)

This course focuses on the overall security processes with particular emphasis on skills in the following areas: security policy design and management; security technologies; products and solutions; firewall and secure router design, installation, configuration, and maintenance.

ITMT 2451-O WINDOWS SERVER SECURITY**CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1451-O, ITSC 1452-O, ITSE 1451-O**

This course will focus on advanced Windows server security features, policies, and settings. The student will be required to design, install, manage, and troubleshoot security policies, software updates, operating system patches, applications, and infrastructure planning. Additional topics include the planning and the configuration of wireless networks, Active Directory, encryption, and SSL certificates.

ITNW 1451-O NETWORK ANALYSIS AND DESIGN**CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1451-O, ITSC 1452-O, ITSE 1451-O**

This course expands upon the concepts presented in ITCC 1451-O by delving into more advanced networking topics including routing, remote access, IP addressing, and security. Network monitoring and troubleshooting are taught in context. This course prepares the student with the skills necessary to support a small- to medium-sized business or ISP. By the end of the course, the student will be eligible to sit for the CompTIA Network+ certification exam.

Elements of this course map to portions of the Cisco Certified Network Administrator (CCNA) certification exam.

ITNW 1452-O SERVER ADMINISTRATION**CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1451-O, ITSC 1452-O, ITSE 1451-O**

This course focuses on configuring, managing, and troubleshooting networking features and services in a Windows Server environment. Emphasis is placed on domain name systems, active directories, and other services associated with a Windows server network infrastructure. Students will be required to create a server virtualization setup.

ITNW 2451-O CLIENT NETWORK IMPLEMENTATION**CONTACT HOURS: THEORY - 25 LAB - 40 (65 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITNW 1451-O**

This course focuses on the implementation and the management of client networks. Topics include types of client networks; installing, configuring, and monitoring a network infrastructure; routing and switching aspects of networks; and Internet protocols. Upon completion of this course, students will be eligible to sit for the Cisco Certified Network Administrator (CCNA) Routing and Switching certification exam.

ITSC 1450-O INTRODUCTION TO COMPUTERS**CONTACT HOURS: THEORY - 25 LAB - 45 (70 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: NONE**

This course focuses on an overview of computer information systems, including computer hardware, software, procedures, and human resources. Emphasis is placed on the components of a computer system, use of common applications, impact of computers on society, identification of computer careers, fundamental programming structure, identification of the ethical use of computers, and the basic operation system function.

ITSC 1451-O COMPUTER HARDWARE ESSENTIALS**CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1450-O**

This course focuses on the parts of a computer. Emphasis is placed on computer components, installation, configurations, maintaining and troubleshooting computer hardware, and peripherals. Computer safety will also be discussed. Upon the completion of ITSC 1451-O, ITSC 1452-O, and ITSE 1451-O, students will be eligible to sit for the CompTIA A+ certification exam.

ITSC 1452-O COMPUTER SOFTWARE ESSENTIALS**CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1450-O**

This course focuses on the fundamental concepts of supporting software, operating systems, basic security, and virtual aspects of computer maintenance and repair. The student will be required to apply proper troubleshooting theory and procedure. Upon the completion of ITSC 1451-O, ITSC 1452-O, and ITSE 1451-O, students will be eligible to sit for the CompTIA A+ certification exam.

ITSC 1453-O COMPUTER ETHICS**CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: NONE**

This course focuses on the ethical issues that apply to computer-related professions, intellectual property and privacy issues, professional responsibility, and the effects of globalization. Emphasis is placed on defining ethics, identifying ethical issues, explaining intellectual property issues within computer information technology, and explaining professional responsibility as it relates to computer ethics.

ITSE 1451-O WINDOWS FUNDAMENTALS**CONTACT HOURS: THEORY - 15 LAB - 60 (75 HOURS)****TOTAL QUARTER CREDIT HOURS: 4.5****PREREQUISITES: ITSC 1450-O**

This course focuses on the key features of Windows operating systems. Emphasis is placed on developing a working knowledge of managing Windows OS and its file systems, directories, and

interfaces. Troubleshooting, customization, deployment, monitoring, and task management will also be covered. Upon the completion of ITSC 1451-O, ITSC 1452-O, and ITSE 1451-O, students will be eligible to sit for the CompTIA A+ certification exam.

POFT 1450-O PROFESSIONAL STRATEGIES

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on the skills required to be successful in college and in your career. Emphasis is on time management, goal setting, and research techniques.

POFT 4451-O CAREER STRATEGIES

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on career planning and job searching. Emphasis is on writing effective resumes, sources of job leads, techniques for successful interviewing, and the follow-up process in the career search.

GENERAL EDUCATION COURSES

COSC 1451-O COMPUTER SCIENCE

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on various information and communication technologies. Emphasis is placed on how information systems are used to solve problems.

ENGL 1451-O ENGLISH COMPOSITION I

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on developing written communication skills with an emphasis on understanding the writing process, analyzing readings, and practicing writing for personal and professional applications.

MATH 2451-O CONTEMPORARY MATHEMATICS

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on the treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics.

PSYC 2451-O GENERAL PSYCHOLOGY

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on human behavior. Emphasis is placed on biological foundations, the brain, sensation, perception, motivation, personality, learning/memory, emotion, states of consciousness, personality theories, cognition, life-span development, and applied psychology.

SPCH 2451-O SPEECH COMMUNICATIONS

CONTACT HOURS: THEORY - 45 LAB - 0 (45 HOURS)

TOTAL QUARTER CREDIT HOURS: 4.5

PREREQUISITES: NONE

This course focuses on human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking.